



## SPECIFICATION AMENDMENT

On page 3, line 18, please insert the following:

"Brief Description of the Drawings

Figure 1 shows *in situ* hybridization images of the levels of homer mRNA transcripts in rats in haloperidol treated rats compared to controls.

Figure 2a shows the differences in homer mRNA levels in the limbic regions of the brain in rats treated with either 0.5 mg/kg or 5 mg/kg of haloperidol compared to controls.

Figure 2b shows the differences in homer mRNA levels in the striatal regions of the brain in rats treated with either 0.5 mg/kg or 5 mg/kg of haloperidol compared to controls.

Figure 2c shows the differences in homer mRNA levels in the cortical regions of the brain in rats treated with either 0.5 mg/kg or 5 mg/kg of haloperidol compared to controls."

Please amend the paragraph on page 6, lines 43 – page 7, line 2 as follows:

"The fragments of DNA obtained after RT-PCR using RNA from A-172 and U87 cells and specific primers complementary to homer gene sequences fully agree in their size with the expected values of the homer gene fragments. The sequencing of RT-PCR products demonstrate their identity as sequences located in the homer gene. Homology analysis demonstrate some punctual differences with the rat homer gene sequences (~~see appendix 4~~ See SEQ ID NOS:3,5,7 and 9)."

Please amend the paragraph on page 7, lines 6-12 as follows:

"The fragments of DNA obtained after RT-PCR using RNA from CHO cells and specific primers complementary to homer gene sequences fully agree in their size with the expected values of the homer gene fragments. The sequencing of RT-PCR products demonstrate their identity as sequences located

in the homer gene. Homology analysis demonstrate some punctual differences with the rat homer gene sequences (~~see appendix 4~~ See SEQ ID NOS:3,5,7 and 9).”

Please amend the paragraph on page 7, lines 16-22 as follows:

“The fragments of DNA obtained after RT-PCR using RNA from HEL cells and specific primers complementary to homer gene sequences fully agree in their size with the expected values of the homer gene fragments. The sequencing of RT-PCR products demonstrate their identity as sequences located in the homer gene. Homology analysis demonstrate some punctual differences with the rat homer gene sequences (~~see appendix 4~~ See SEQ ID NOS:3,5,7 and 9).”

Please delete pages 18 and 19 of the specification and add the following attached new page 18.

"The sequence of the homer gene amplified from HEL mRNA is shown in SEQ ID NO:3 and its corresponding amino acid sequence is shown in SEQ ID NO:4. The sequence of the homer gene amplified from U87 mRNA is shown in SEQ ID NO:5 and its corresponding amino acid sequence is shown in SEQ ID NO:6. The sequence of the homer gene amplified from rat astrocyte mRNA is shown in SEQ ID NO:7 and its corresponding amino acid sequence is shown in SEQ ID NO:8. The sequence of the homer gene amplified from CHO cell mRNA is shown in SEQ ID NO:9 and its corresponding amino acid sequence is shown in SEQ ID NO:10."